



# INCITE Overview

May 18, 2010



Julia C. White, INCITE Manager  
[whitejc@DOEleadershipcomputing.org](mailto:whitejc@DOEleadershipcomputing.org)

# What is INCITE?

## INCITE: Innovative and Novel Computational Impact on Theory and Experiment

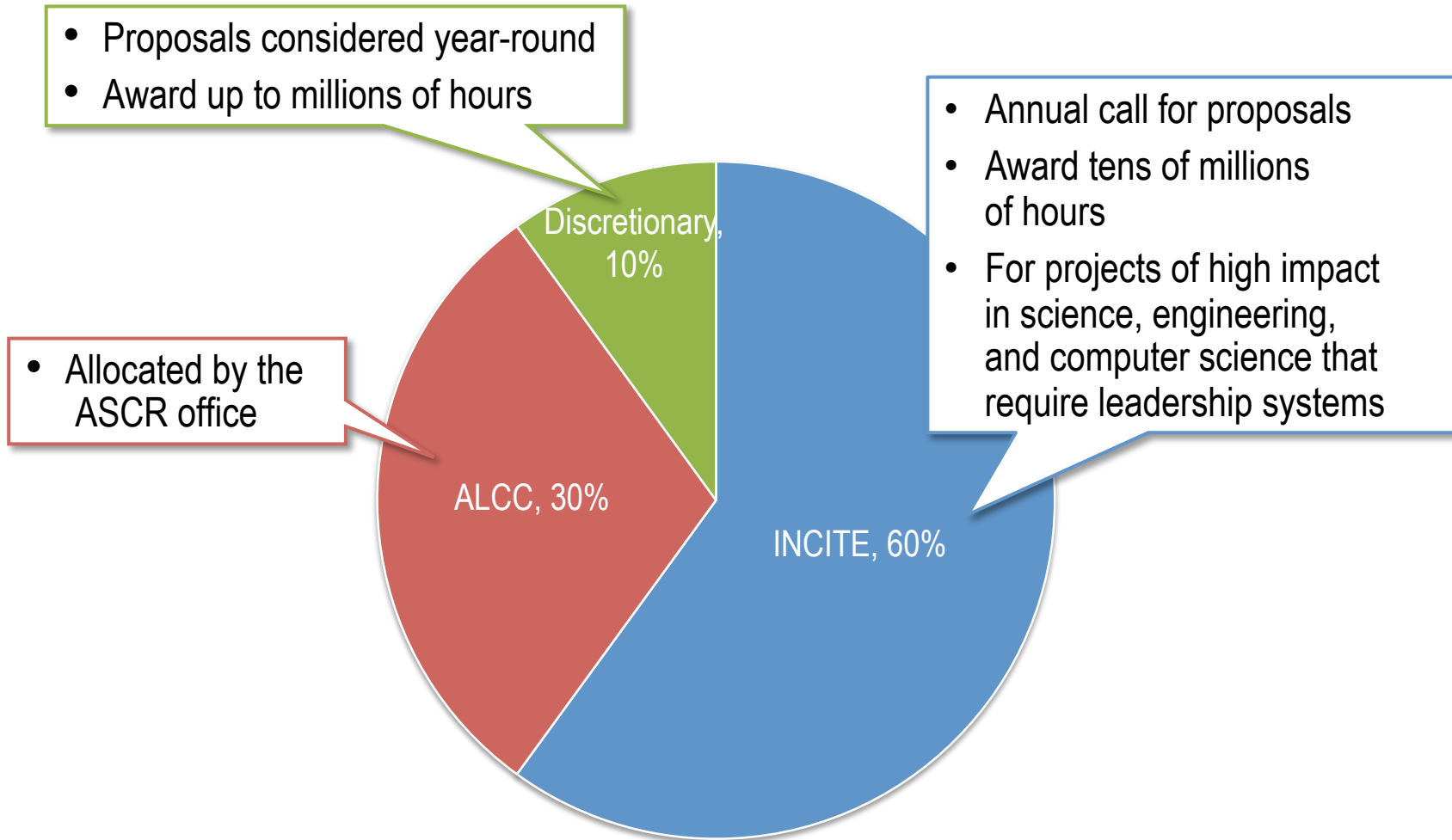
Provides awards to academic, government, and industry organizations worldwide needing large allocations of computer time, supporting resources, and data storage to pursue transformational advances in science and industrial competitiveness.

Beginning in 2010, INCITE is jointly run by the ALCF and OLCF, managed by Julia White



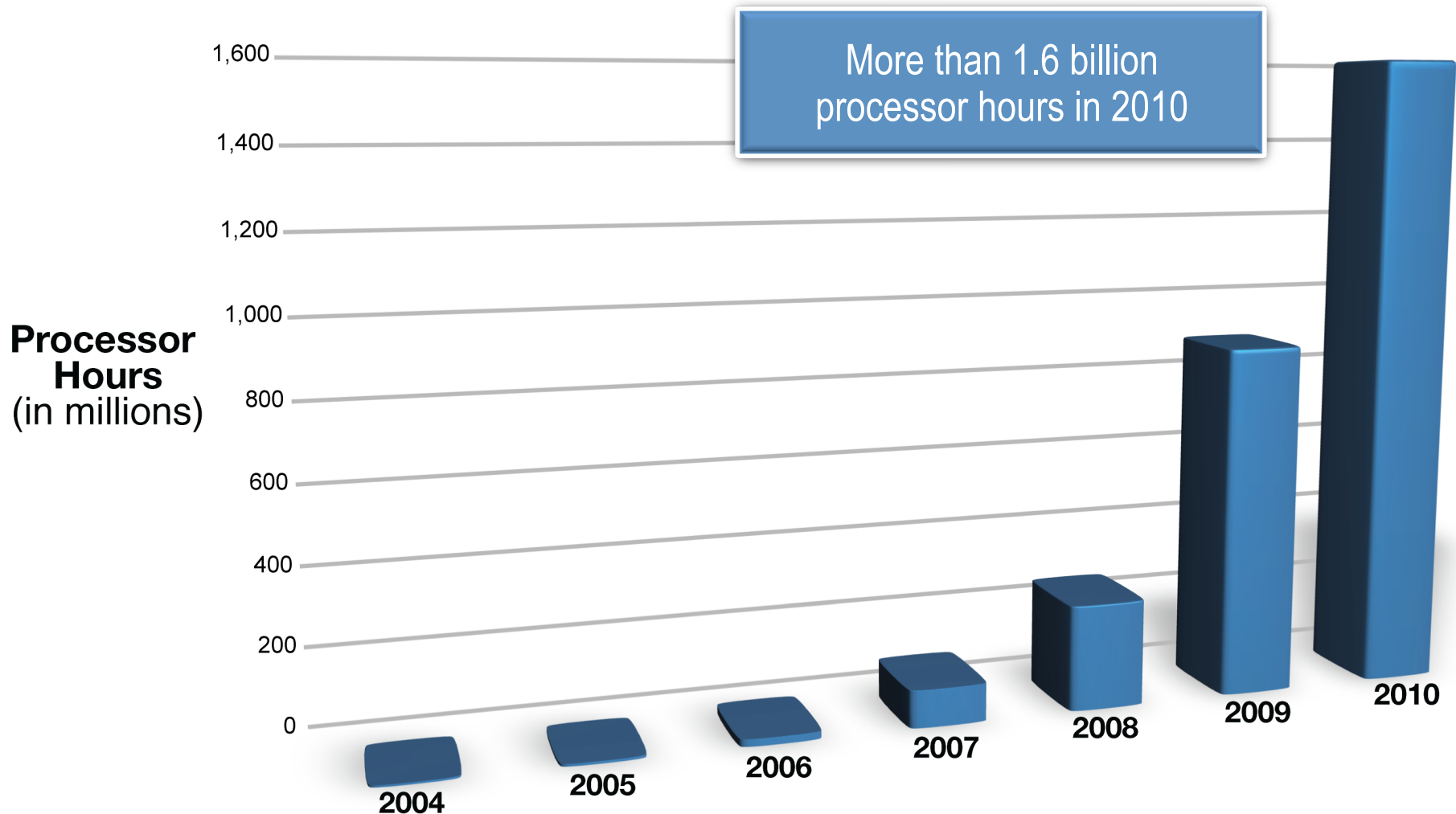
# LCF allocation programs

## More than 2.7 billion processor hours



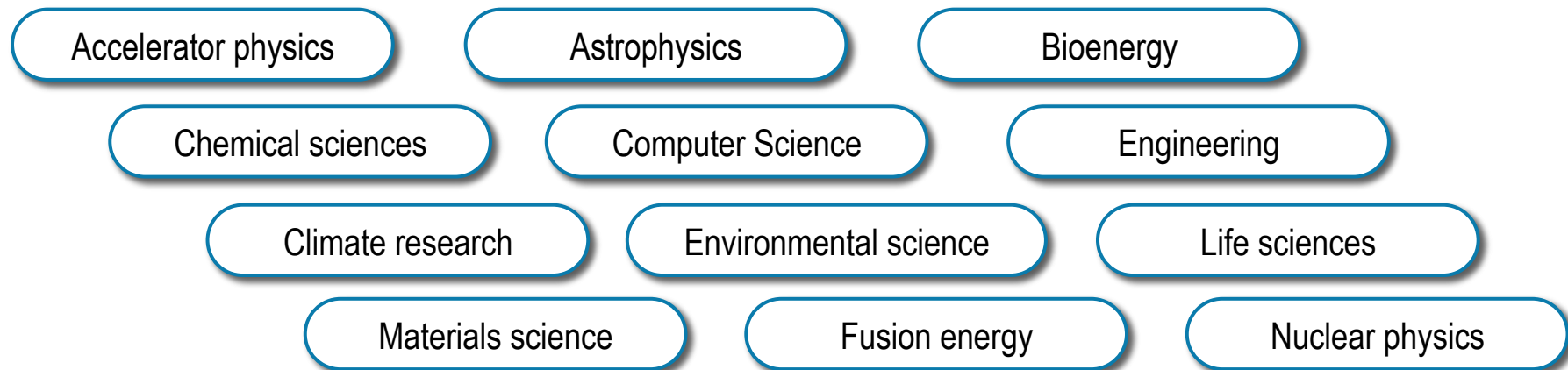
# INCITE in its 7th year

## Explosive growth in program allocations



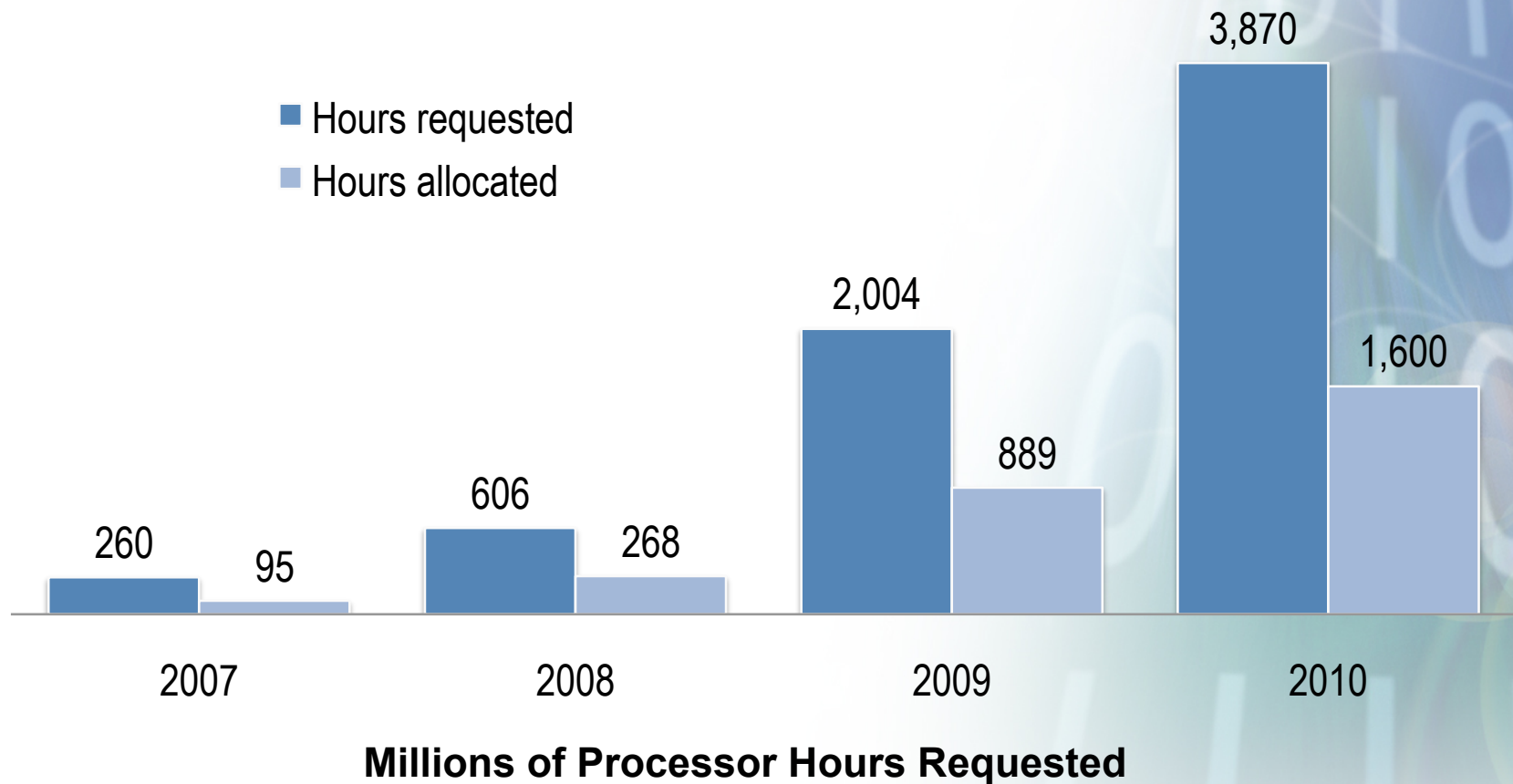
# INCITE is open to researchers worldwide from academic, government, and industry organizations

Advancing the state of the art across a range of disciplines

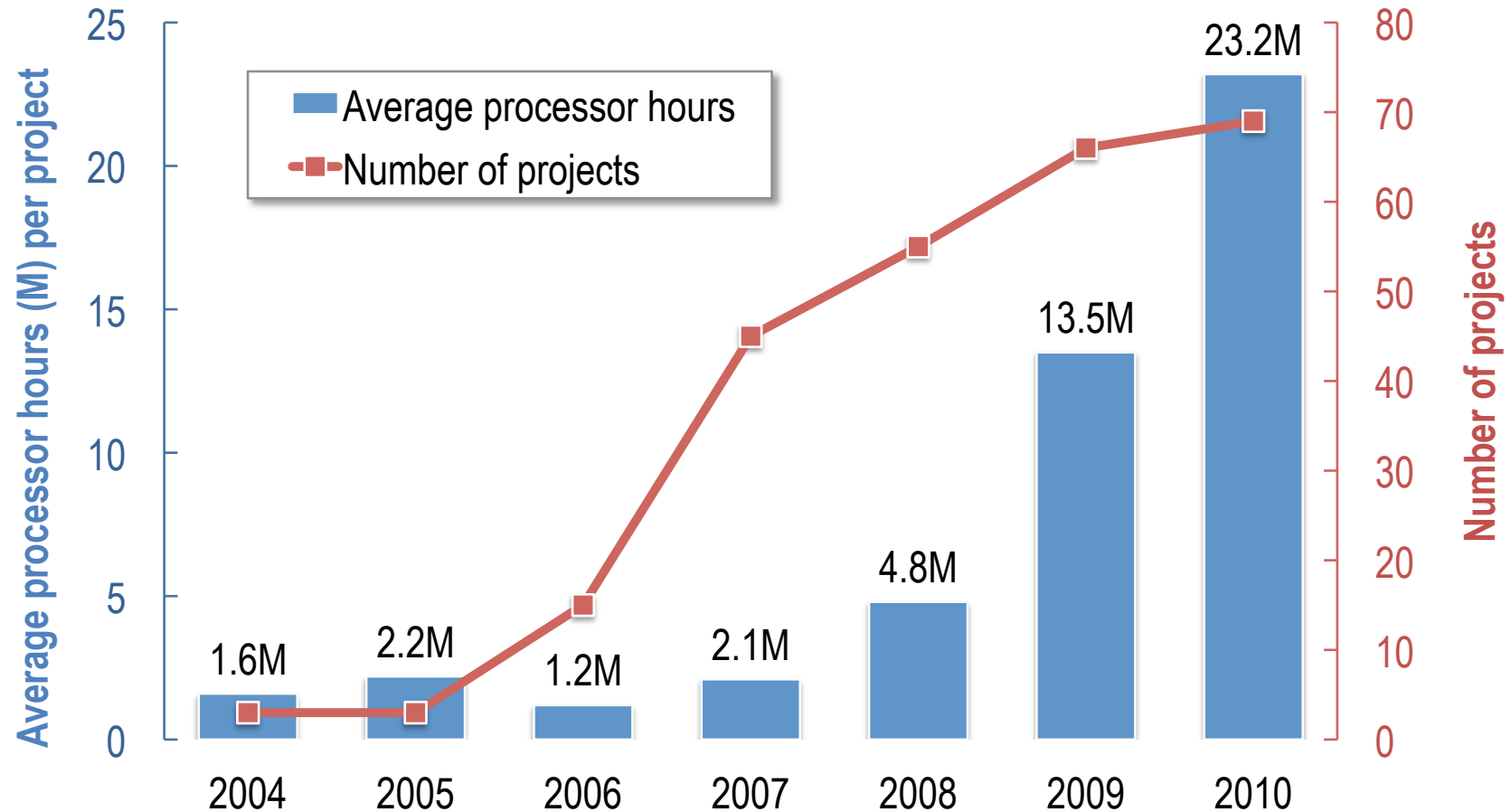


- No designated number of hours for a particular science area
- INCITE looks at all recommendations, focusing on potential for scientific or technological impact, then readiness

# The INCITE program is typically 2.5× oversubscribed



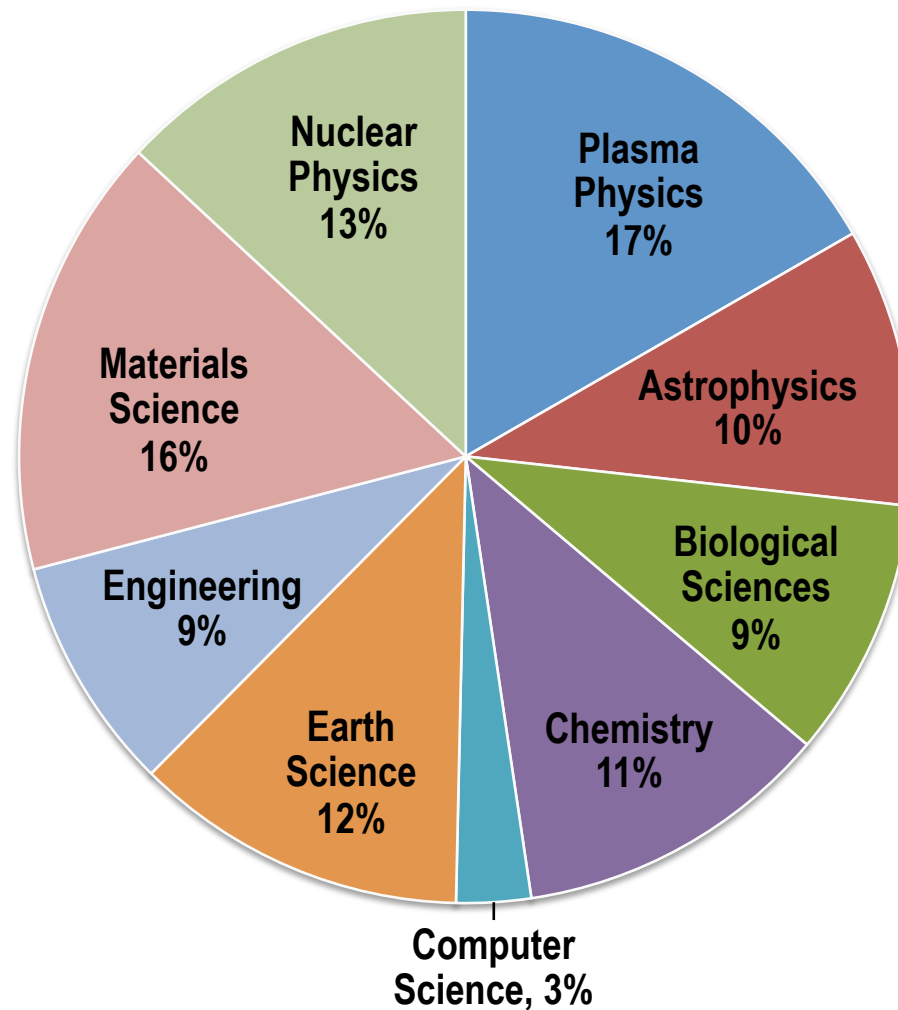
# INCITE awards have grown in size and number





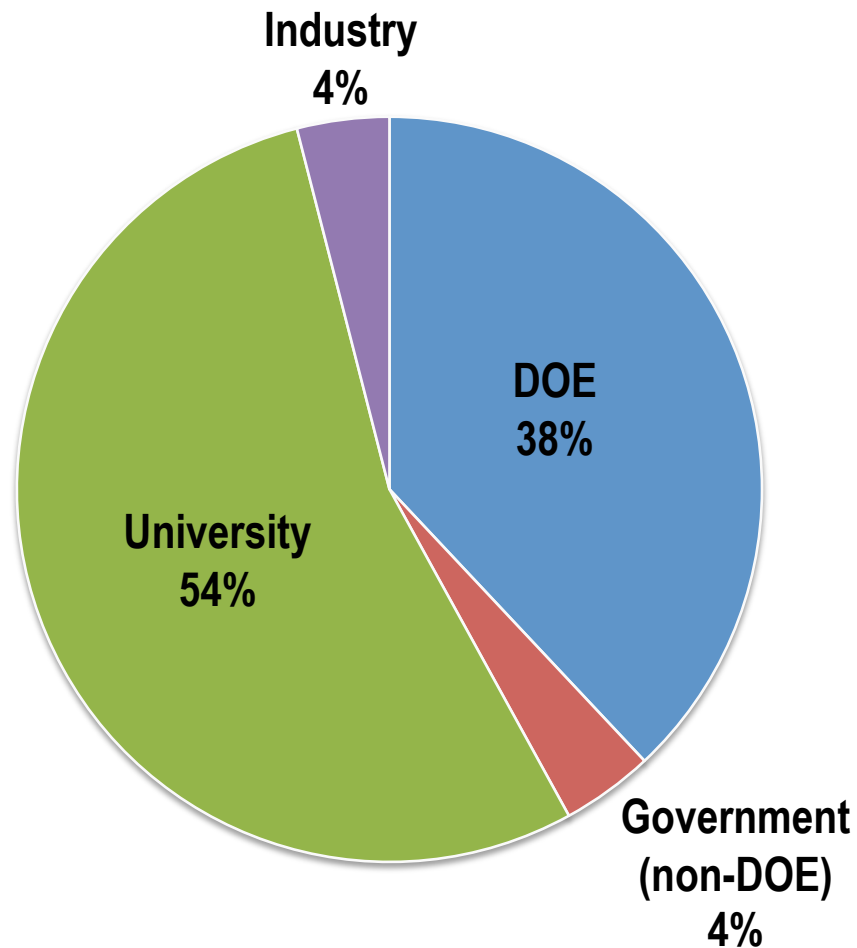
# INCITE 2010 awards:

35 new projects and 34 renewal projects

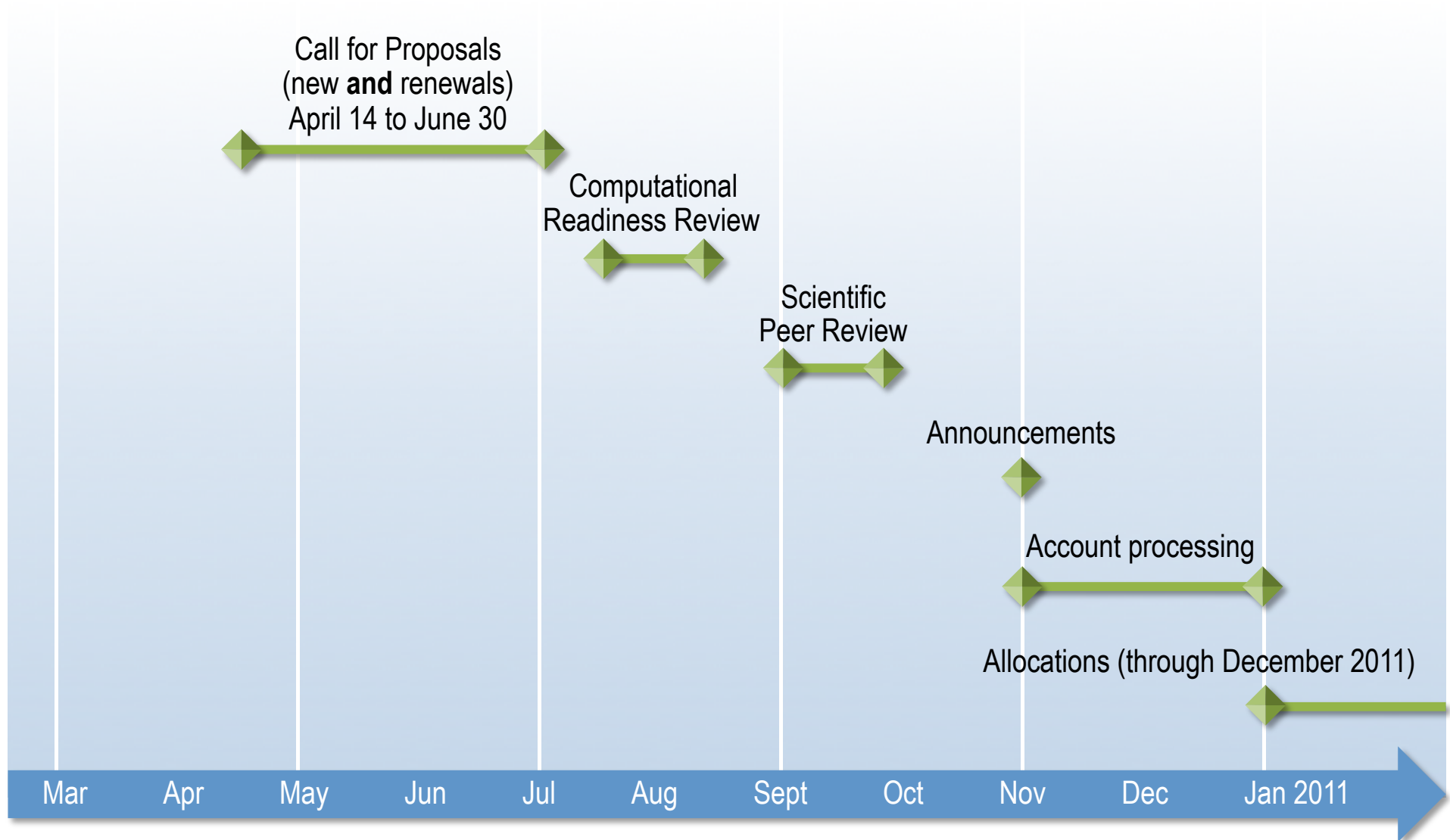




# 2010 project demographics by PI affiliation



# INCITE 2011: Schedule for proposals



# Review process: Computational readiness

- Reviewers: Center staff who are expert in these systems
- Both centers review each proposal

Criteria for new proposals	Criteria for renewals
<ul style="list-style-type: none"><li>• Appropriateness for requested resources</li><li>• Appropriateness of computational approach</li><li>• Technical readiness</li></ul>	<ul style="list-style-type: none"><li>• Met technical and computational milestones</li><li>• On track to meet future milestones</li></ul>

# Review process: Panel review

- Reviewers: Domain experts drawn from institutions worldwide

Criteria for new proposals	Criteria for renewals
<ul style="list-style-type: none"><li>• Scientific and/or technical merit</li><li>• Appropriateness of proposal method</li><li>• Team qualifications</li><li>• Reasonableness of requested resources</li></ul>	<ul style="list-style-type: none"><li>• Change in scope</li><li>• Met technical/scientific milestones</li><li>• On track to meet future milestones</li><li>• Impact relative to other proposals under consideration</li></ul>

# 2011 Call for proposals

- Opens April 14<sup>th</sup>, closes **June 30<sup>th</sup>**
- Awards made independently of funding source
- 1.6B processor hours to be allocated for CY 2011
- Average project award to exceed **20M processor hours**
- Applicants must present evidence that their proposed production simulations can make effective use of a significant fraction, in most cases **20% or more**, of the HPC systems offered for allocation

# Contacts

## For details about the INCITE program:

<http://hpc.science.doe.gov>  
[INCITE@DOEleadershipcomputing.org](mailto:INCITE@DOEleadershipcomputing.org)



## For details about the ALCC program:

<http://www.er.doe.gov/ascr/Facilities/ALCC.html>  
[ALCC@Science.doe.gov](mailto:ALCC@Science.doe.gov)

